Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the

application:

Listing of Claims:

1. (Previously presented) A stent deployment device for allowing a user to

deploy a stent in an anatomical lumen of a patient, the stent deployment device

comprising:

a support member configured to abut against a palm of a hand of the user;

a longitudinally extending outer tubular member having distal and proximal ends,

the distal end configured to receive the stent such that the stent is slidably disposed in

the outer tubular member;

a longitudinally extending inner tubular member having distal and proximal ends,

the distal end of the inner tubular member comprising a tip, the inner tubular member

coupled with the support member and at least a portion of the inner tubular member

disposed within the outer tubular member such that the inner tubular member is

longitudinally and axially displaceable relative to the outer tubular member; and

a deployment mechanism coupled with the outer tubular member and configured

to allow staged release of the stent, the deployment mechanism comprising

a first release member to at least partially move the outer tubular member

proximally and longitudinally relative to the inner tubular member, and

Page 2 of 20

Amendment dated October 6, 2011

Reply to Office Action of June 7, 2011

a second release member positioned proximal to the first release member

and operably connected to the first release member to move the outer tubular

member proximally and longitudinally relative to the inner tubular member,

wherein the first release member and the second release member are

configured to be serially retracted to provide staged release of the stent such that

retracting the second release member moves the first release member and the

outer tubular member proximally and longitudinally relative to the inner tubular

member from a first position to a second position to partially deploy the stent, and

wherein subsequent retraction of the first release member moves the outer

tubular member proximally and longitudinally relative to the inner tubular member

from the second position to a third position to fully deploy the stent.

2. (Cancelled)

3. (Cancelled)

4. (Previously presented) The stent deployment device as recited in claim 1,

further comprising a safety member for preventing movement of the first release

member and the outer tubular member toward the support member beyond a

predetermined position of the outer tubular member relative to the inner tubular

member.

Page 3 of 20

Amendment dated October 6, 2011

Reply to Office Action of June 7, 2011

5. (Previously presented) The stent deployment device as recited in claim 4,

wherein movement of the first release member from the first position to the

predetermined position exposes at least a portion of the stent.

6. (Original) The stent deployment device as recited in claim 5, wherein the

portion of the stent exposed is from about 5% to about 95% of the length of the stent.

7. (Previously presented) The stent deployment device as recited in claim 4,

wherein the safety member comprises a removable tab disposed between the support

member and the outer tubular member.

8. (Original) The stent deployment device as recited in claim 1, further

comprising an elongated viewing device having a proximal end and distal end, the

viewing device slidably disposed in the outer tubular member such that the proximal end

of the viewing device extends outwardly of the proximal end of the outer tubular

member.

9. (Original) The stent deployment device as recited in claim 8, further

comprising means for releasably securing the viewing device with respect to the outer

tubular member.

Page 4 of 20

Application No. 10/585,430 Amendment dated October 6, 2011 Reply to Office Action of June 7, 2011

10. (Previously presented) The stent deployment device as recited in claim 9, wherein the viewing device securing means is associated with the support member.

11. (Cancelled)

12. (Previously presented) The stent deployment device as recited in claim 10, wherein the viewing device securing means comprises a clamp head threadably received in the support member.

13. (Previously presented) A stent delivery system for use in an anatomical

lumen of a patient, the stent delivery system comprising:

a support member configured to abut against a palm of a hand of the user;

a longitudinally extending outer tubular member having distal and proximal ends,

the distal end configured to receive the stent such that the stent is slidably disposed in

the outer tubular member;

a longitudinally extending inner tubular member having distal and proximal ends,

the distal end of the inner tubular member comprising a tip, the inner tubular member

coupled with the support member and at least a portion of the inner tubular member

disposed within the outer tubular member such that the inner tubular member is

longitudinally and axially displaceable relative to the outer tubular member;

a stent having a proximal end and a distal end and slidably disposed in within a

distal portion of the outer tubular member and around a distal portion of the inner

tubular member; and

a deployment mechanism coupled with the outer tubular member and configured

to allow staged release of the stent, the deployment mechanism comprising

a first release member to at least partially move the outer tubular member

proximally and longitudinally relative to the inner tubular member, and

a second release member positioned proximal to the first release member

and operably connected to the first release member to move the outer tubular

member proximally and longitudinally relative to the inner tubular member,

Page 6 of 20

Amendment dated October 6, 2011

Reply to Office Action of June 7, 2011

wherein the tip of the inner tubular member engages the proximal end of

the stent for advancing the stent toward the distal end of the outer tubular

member as the first and second release members move toward the support

member, and

wherein the first release member and the second release member are

configured to be serially retracted to provide staged release of the stent such that

retracting the second release member moves the first release member and the

outer tubular member proximally and longitudinally relative to the inner tubular

member from a first position to a second position to partially deploy the stent, and

wherein subsequent retraction of the first release member moves the outer

tubular member proximally and longitudinally relative to the inner tubular member

from the second position to a third position to fully deploy the stent.

14. (Previously presented) The stent delivery system as recited in claim 13,

wherein a portion of the stent is exposed outwardly of the distal end of the outer tubular

member.

15. (Previously presented) The stent delivery system as recited in claim 14,

wherein the stent is deployed from the distal end of the outer tubular member.

16. (Previously presented) The stent delivery system as recited in claim 13,

further comprising a safety member for preventing movement of the first release

Page 7 of 20

Amendment dated October 6, 2011

Reply to Office Action of June 7, 2011

member and the outer tubular member toward the support member beyond a

predetermined position of the outer tubular member relative to the inner tubular

member.

17. (Previously presented) The stent delivery system as recited in claim 16,

wherein movement of the first release member from the first position of the outer tubular

member relative to the inner tubular member to the predetermined position exposes at

least a portion of the stent outwardly of the distal end of the outer tubular member.

18. (Original) The stent delivery system as recited in claim 17, wherein the

portion of the stent exposed is from about 5% to about 95% of the length of the stent.

19. (Previously presented) The stent delivery system as recited in claim 16,

wherein the safety member comprises a removable tab disposed between the support

member and the outer tubular member.

20. (Previously presented) The stent delivery system as recited in claim 13,

further comprising an elongated viewing device having a proximal end and distal end,

the viewing device slidably disposed in the outer tubular member such that the proximal

end of the viewing device extends outwardly of the proximal end of the outer tubular

member.

Page 8 of 20

Application No. 10/585,430 Amendment dated October 6, 2011 Reply to Office Action of June 7, 2011

21. (Original) The stent delivery system as recited in claim 20, further comprising means for releasably securing the viewing device with respect to the outer tubular member.

22. (Previously presented) The stent delivery system as recited in claim 21, wherein the viewing device securing means is associated with the support member.

23. (Cancelled)

24. (Previously presented) The stent deployment device as recited in claim 22, wherein the viewing device securing means comprises a clamp threadably received in the support member.

25. (Previously presented) A method for delivering a stent in an anatomical

lumen of a patient, the method of stent delivery comprising:

providing a delivery device including

a support member configured to abut against a palm of a hand of the user,

a longitudinally extending outer tubular member having distal and proximal

ends, the distal end configured to receive the stent such that the stent is slidably

disposed within the outer tubular member,

a longitudinally extending inner tubular member having distal and proximal

ends, the distal end of the inner tubular member comprising a tip, the inner

tubular member coupled with the support member and at least a portion of the

inner tubular member disposed within the outer tubular member such that the

inner tubular member is longitudinally and axially displaceable relative to the

outer tubular member, and

a deployment mechanism coupled with the outer tubular member and

configured to allow staged release of the stent, the deployment mechanism

comprising

a first release member to at least partially move the outer tubular

member proximally and longitudinally relative to the inner tubular member,

and

a second release member positioned proximal to the first release

member and operably connected to the first release member to move the

Page 10 of 20

outer tubular member proximally and longitudinally relative to the inner

tubular member,

wherein the first release member and the second release member

are configured to be serially retracted to provide staged deployment of the

stent,

slidably disposing a stent having a proximal end and a distal end within a distal

portion of the outer tubular member and around a distal portion of the inner tubular

member, wherein the tip of the inner tubular member engages the proximal end of the

stent to advance the stent toward the distal end of the outer tubular member as the

outer tubular member moves toward the support member relative to the inner tubular

member;

positioning the distal portion of the outer tubular member within the anatomical

lumen of the patient at a desired location;

retracting the second release member in a direction toward the support member

to thereby retract the first release member and the outer tubular member relative to the

inner tubular member from a first position to a second position to partially deploy the

distal end of the stent; and

retracting the first release member in a direction toward the support member and

toward the second release member to thereby retract the outer tubular member relative

to the inner tubular member from the second position to a third position to completely

deploy the stent in the anatomical lumen of the patient.

Page 11 of 20

Amendment dated October 6, 2011

Reply to Office Action of June 7, 2011

26. (Previously presented) The method of stent delivery as recited in claim 25,

wherein a portion of the stent is exposed outwardly of the distal end of the outer tubular

member.

27. (Previously presented) The method of stent delivery as recited in claim 26,

wherein the stent is deployed from the distal end of the outer tubular member.

28. (Previously presented) The method of stent delivery as recited in claim 25,

further comprising preventing movement of the first release member and the outer

tubular member toward the support member beyond a predetermined position of the

outer tubular member relative to the inner tubular member.

29. (Previously presented) The method of stent delivery as recited in claim 25,

further comprising

providing an elongated viewing device having a proximal end and distal end, and

slidably disposing the viewing device in the outer tubular member such that the

proximal end of the viewing device extends outwardly of the proximal end of the outer

tubular member.

30. (Previously presented) The stent delivery system as recited in claim 29,

further comprising releasably securing the viewing device with respect to the outer

tubular member.

Page 12 of 20

31. (Previously presented) The stent deployment device as recited in claim 1,

wherein the deployment mechanism is operable without initially disengaging a safety

mechanism.

32. (New) A stent deployment device for allowing a user to deploy a stent in an

anatomical lumen of a patient, the stent deployment device comprising:

a support member configured to abut against a palm of a hand of the user;

a longitudinally extending outer tubular member having distal and proximal ends,

the distal end configured to receive the stent such that the stent is slidably disposed in

the outer tubular member;

a longitudinally extending inner tubular member having distal and proximal ends,

the distal end of the inner tubular member comprising a tip, the inner tubular member

coupled with the support member and at least a portion of the inner tubular member

disposed within the outer tubular member such that the inner tubular member is

longitudinally and axially displaceable relative to the outer tubular member; and

a deployment mechanism coupled with the outer tubular member and configured

to allow staged release of the stent, the deployment mechanism comprising

a first release member configured to retract proximally and longitudinally

with respect to the inner tubular member and configured to at least partially move

the outer tubular member proximally and longitudinally relative to the inner

tubular member, and

Page 13 of 20

a second release member positioned proximal to the first release member

and operably connected to the first release member, the second release member

configured to retract proximally and longitudinally with respect to the inner tubular

member and configured to move the outer tubular member proximally and

longitudinally relative to the inner tubular member,

wherein the first release member and the second release member are

configured to be serially retracted to provide staged release of the stent such that

retracting the second release member proximally and longitudinally with respect

to the inner tubular member moves the first release member and the outer

tubular member proximally and longitudinally relative to the inner tubular member

from a first position to a second position to partially deploy the stent, and wherein

subsequent retraction of the first release member proximally and longitudinally

with respect to the inner tubular member moves the outer tubular member

proximally and longitudinally relative to the inner tubular member from the

second position to a third position to fully deploy the stent.

Page 14 of 20